## **Claims**

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- 1. Process for fine machining of functional first surfaces on pre-machined and hardened transmission gear workpieces with a cylindrical boring, said first functional surfaces comprising a gearing, wherein in one and the same fixing of said workpiece on second surfaces not requiring hard machining, said gearing according to a continuously working generating grinding process and, at the same time, said boring are machined.
- 2. Process, according to claim 1, wherein for the machining of the gearing (7) the continuous generating grinding using a cylindrical grinding worm is used.
- 3. Process according to claim 1, wherein for the machining of the gearing (7) the continuous profile generating grinding with a globoid-like grinding worm is used.
- 4. Process according to claim 1, wherein said functional first surfaces comprise a frontal surface and wherein the frontal surface is machined at the same time as said gearing and said boring.
- 5. Process according to claim 3, wherein continuous profile generating grinding is used with subsequent honing in the same mounting.
- 6. Process for fine machining of functional first surfaces on pre-machined and hardened transmission gear workpieces with a cylindrical boring, said first functional surfaces comprising a gearing, wherein in one and the same fixing of said workpiece on second surfaces not requiring hard machining, said gearing according to a continuously working generating machining process and; at the same time, said boring are machined.
- 7. Process according to claim 6, wherein said machining process is a gear honing process.

